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UTKAL UNIVERSITY

UTKAL UNIVERSITY
MASTER OF SCIENCE DEGREE COURSE
M.Sc. COMPUTER SCIENCE
UNDER UTKAL UNIVERSITY
(with effect from 2015-2016)

The Course of Study and the Scheme of Examinations

Year / Semester	Subject	Paper	Title of the Paper	Credit	Max. Marks		
					IA	Uni. Exam	Total
I Year I Semester	Core	CS-1.1	Data Structure and Algorithms	4	30	70	100
	Core	CS-1.2	Computer System Architecture	4	30	70	100
	Core	CS-1.3	Database Systems & Implementation	4	30	70	100
	Core	CS-1.4	Discrete Mathematical Structures	4	30	70	100
	Elective I	CS-1.5	(a) Visual Programming (or) (b) Object Oriented Design using UML	4	30	70	100
	Core Practical	CS-1.6	Algorithms Lab	4		100	100
	Core Practical	CS-1.7	Database Lab	4		100	100
I Year II Semester	Core	CS-2.1	Computer Networks	4	30	70	100
	Core	CS-2.2	Advanced JAVA	4	30	70	100
	Core	CS-2.3	Operating System Design	4	30	70	100
	Core	CS-2.4	Theory of Computation	4	30	70	100
	Elective II	CS-2.5	(a)Data Mining (or) (b)Computer Graphics	4	30	70	100
	Core Practical	CS-2.6	JAVA Programming Lab	4		100	100
	Core Practical	CS-2.7	Operating Systems Lab	4		100	100
II Year III Semester	Core	CS-3.1	Artificial Intelligence	4	30	70	100
	Core	CS-3.2	Software Engineering	4	30	70	100
	Core	CS-3.3	Compiler Design	4	30	70	100
	Elective III	CS-3.4	(a) Network Security (or) (b) Cloud Computing	4	30	70	100
	Elective IV	CS-3.5	(a) Embedded System (or) (b) Mobile Computing	4	30	70	100
	Core Practical	CS-3.6	AI Programming Lab	4		100	100
	Core Practical	CS-3.7	Software Engineering Lab	4		100	100
II Year IV Semester		CS-4.1	Comprehensive Viva	4		100	100
		CS-4.2	Project Work and Viva Voce	12		300	300
			Total	100			2500